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Mathematical modelling in health, social and applied sciences. (English) Zbl 07183627

Forum for Interdisciplinary Mathematics. Singapore: Springer (ISBN 978-981-15-2285-7/hbk; 978-981-15-2286-4/ebook). xi, 320 p. (2020).

Preliminary review / Publisher's description: This book discusses significant research findings in the field of mathematical modelling, with particular emphasis on important applied-sciences, health, and social issues. It includes topics such as model on viral immunology, stochastic models for the dynamics of influenza, model describing the transmission of dengue, model for human papillomavirus (HPV) infection, prostate cancer model, realization of economic growth by goal programming, modelling of grazing periodic solutions in discontinuous systems, modelling of predation system, fractional epidemiological model for computer viruses, and nonlinear ecological models. A unique addition in the proposed areas of research and education, this book is a valuable resource for graduate students, researchers and educators associated with the study of mathematical modelling of health, social and applied-sciences issues. Readers interested in applied mathematics should also find this book valuable.

MSC:

- 92-06 Proceedings, conferences, collections, etc. pertaining to biology
- 00A69 General applied mathematics
- 00A71 General theory of mathematical modeling
- 00B15 Collections of articles of miscellaneous specific interest

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